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Environmental Protection Plan for The Port of Portland's Dredge Oregon and Attendant Plant



Prepared for:
The U. S. Army Corps of Engineers
Portland, Oregon

Prepared by:
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APPENDIX

- Oregon Department of Environmental Quality Water Quality Certification
- Washington Department of Ecology Water Quality Certification
- Washington Department of Fish and Wildlife provisions and recommendations
- Washington Department of Ecology Shoreline and Environmental Assistance Program provisions and recommendations
- National Marine Fisheries Service Biological Opinion

1.0 Introduction

The U. S. Army Corps of Engineers (ACOE) requires development of an Environmental Protection Plan (EPP) for dredging operations conducted by the Port of Portland. This EPP was designed to meet the requirements of the Army Corps of Engineer's Request for Proposal (RFP) DACW57-00-R-0012 to the Port of Portland (Port) for the Rental of the Pipeline Dredge Oregon and Attendant Plant, *Section 01060 Environmental Protection (Dredging)*.

Requirements for the EPP, as listed in the RFP, are identified at the beginning of each section in *Italics* text. The response to each requirement is then described below.

2.0 Contamination-Prevention

Requirement

A contamination-prevention section listing all potentially hazardous petroleum products and toxic materials on the job site and corresponding provisions to be taken to prevent accidental or intentional introduction of such materials into any waterway, the air, or the ground. Section is to include plans for preventing polluted runoff from plant, equipment parking, and maintenance areas from entering local water bodies.

Response

2.1 Summary of Hazardous Materials

Hazardous materials supporting the Port's dredge operations are summarized in Table 1.

Table 1. Summary of Hazardous Materials

Material	Quantity (gallons)	Location	Vessel
Diesel Fuel	75,000	Dredge	Oregon
Diesel Fuel	1500	Tug Boat	Williams
Diesel Fuel	1200	Work Boat	Clackamas
Diesel Fuel	300	Work Boat	The Don
Diesel Fuel	4000	Supply Barge	N/A
Diesel Fuel	2400	Tanker Trucks	N/A
Diesel Fuel	210	Crew Boat	Sacajawea
Gasoline	18	Dredge	Oregon
Petroleum-based Solvent	100	Dredge	Oregon
Oil	6450	Dredge	Oregon
Paint	30	Dredge	Oregon
Ethylene Glycol	100	Dredge	Oregon

2.2 Contamination-Prevention Plan

Accidental or intentional introduction of potentially hazardous petroleum products or toxic materials into the waterway, air, or ground will be prevented using the following protocol:

- The Navigation Division has contracted with a fueling service to provide onsite fueling.
- When a hazardous material is transferred over water after dark there will be at least two or more qualified people to be available to manage the action properly. One person is required to be present at the nozzle at all times during fueling. An automatic shutoff and a time limited electric pump have been installed on the fueling system.
- All hoses and pipe that are used for transfer or containment of hazardous material will have caps or plugs to prevent dripping when not in use.
- All containers used to dispose of hazardous materials will be properly sealed to prevent accidents, whether container is full or partially full.

- Bilge water will be pumped to a secondary containment and subsequently separated by an U. S. Environmental Protection Agency (EPA) rated oil/water separator. Oil will be placed in the Dredge Oregon's 12,000-gallon sludge tank for recycling and clearwater will then be filtered before being pumped overboard.
- All spent petroleum-based solvents will be immediately containerized and placed in the Dredge Oregon's 12,000-gallon sludge tank for recycling.
- Incidental spills on deck will be immediately contained utilizing booms, absorbent pads, and/or gunnels. All spills will be immediately removed utilizing absorbent pads. All soiled absorbent pads will be immediately bagged and stored for disposal in an appropriate manner.

3.0 Containment and Cleanup

Requirement

A containment and cleanup section including the procedures, instructions, and reports to be used in the event of an unforeseen oil or chemical spill. This section shall include as a minimum:

Response

3.1 Containment and Cleanup Supervisor

The individual responsible for implementing and supervising any containment and cleanup actions is as follows:

Mr. Rob Cook
Port of Portland
Navigation Division Manager
503/240-2201 (phone)
503/240-2209 (fax)

3.2 Materials and Equipment

Materials and equipment that will be immediately available for response to a containment and cleanup action is as follows:

- 200-feet-long containment boom
- skimming equipment (30 bags of absorbent pads – 100 pads per bag)
- cleanup kit (including: containment bags for soiled absorbent pads)

3.3 Emergency Response and Equipment Suppliers

The emergency response and supplemental equipment supplier of containment materials and/or oil recovery, cleanup, restoration, and material placement equipment in case of an unforeseen spill emergency are as follows:

Emergency Response Services

Foss Environmental
5420 North Lagoon Avenue
Portland, OR 97217
1/800/337-7455 phone - emergency response
503/283-1150 (phone)
503/289-6568 (fax)

Additional Supplies

Pioneer Sterilized Wiping Cloth Company
710 NW 14th Avenue
Portland, OR 97209
503/226-6057 (phone)
503/226-4903 (fax)

3.4 Emergency Response Procedures

In the event of an emergency, the following procedures are to be followed:

1. **Stop the flow** of the pollutant by closing valves, stopping pumps, or taking other appropriate action to stop the spill.
2. **Contain any pollution** already in the river by deploying oil containment boom sufficient distance downstream from the spill area to trap spilled oil that will be moving downstream with the river current. If applicable, spread oil absorbent pads over spill area.
3. As necessary, contact Foss Environmental Services Inc. at 800/337-7455 or 503/283-1150 to request emergency environmental clean-up services
4. Notify the National Response Center (800/424-8802).
5. If in the state of Oregon, notify the Oregon Emergency Spill Response at 800/452-0311.
6. If in the state of Washington, notify the Department of Emergency Management at 800/258-5990.
7. Notify the U.S. Coast Guard if a sheen is present on the water (Hotline: 503/240-9370 or VHF Radio: Channel 16)
8. Notify the Navigation Division Manager at 503/240-2201 (work), over the Navigation Division mobile radio, or 503/691-1039 (home).

9. Prepare a log to document the events. Collect the following information for notification of Port of Portland Personnel and US Army Corps of Engineers Personnel:

- Name of vessel
- Name of owner/operator - Port of Portland
- Date, time, and location of spill
- Type of product spilled
- Estimate of how many gallons spilled
- Cause of spill
- Action taken for cleanup of spill
- Property damage
- Outside agency involvement
- Names of parties observing spill

10. Notify the following Port of Portland Personnel:

- Port Environmental Service Division Manger - 503/944-7236.
- Notify Port Loss Control Manager at 503/944-7423.
- Notify Environmental Legal Council at 503/944-7033

11. Notify the following US Army Corps of Engineers Personnel

- Mr. Ken Espenel/Contracting Officer's Representative at 503/808-4353
- Sheryl Carrubba/Alternate Contracting Officer's Representative at 503/808-4357

12. Notify the Water Quality Insurance Syndicate (WQIS) for dredge, attendant vessels, and dock. WQIS is available 24-hours a day, 7-days a week at (212) 233-5203. Provide the following information:

All spills and cleanup reports including written documentation will be provided by:

Mr. Jeff Hawkins
Port of Portland
Dredge Captain
503/240-2206 (phone)
503/240-2209 (fax)

4.0 Erosion and Turbidity Control

Requirement

An erosion and turbidity control section on any construction which will disturb the earth's surface and could introduce turbidity into water courses, dust into the air, or slides into areas not scheduled to be disturbed. This section shall include the Contractor's plan for controlling erosion and turbidity and for depositing of unwanted materials including surface drainage from cuts, fills, borrow, and material deposit areas. Temporary erosion and sediment control measures such as seeding, mulching, sprinkling, ditches, dikes, drains, sedimentation basins, or silt fences or curtains shall be identified.

Response

The Dredge Oregon will meet the terms and conditions of the Corps' Water Quality Certifications as provided by the Oregon Department of Environmental Quality (DEQ) dated June 5, 2000 and the Washington Department of Ecology (DOE) dated June 5, 2000. In addition, the provisions and recommendations provided to the Corps by the Washington Department of Fish and Wildlife, dated April 25, 2000; DOE Shoreline and Environmental Assistance Program, dated June 1, 2000; and the Biological Opinion provided by the National Marine Fisheries Service, dated September 15, 1999 will also be met. Copies of these documents are included in Appendix A.

5.0 Borrow-Area Reclamation

Requirement

A borrow-area-reclamation section, if a borrow area is to be opened and operated for the supply of materials under this contract

Response

No borrow areas will be utilized under this contract.

6.0 Sound Level Control

Requirement

A sound level control section describing procedures and equipment to be used in abating construction noise.

Response

Dredging operations generally do not result in sound levels that have undesirable impact on local community or ecology. Sound abatement in the form of residential rated mufflers is provided on work boats, with the exception of the vessel "Don". As an extra sound level mitigation measure, work boats are idled through residential areas.

7.0 Coordination

Requirement

Prior to the work a meeting shall be held with the Government to develop mutual understandings relative to the administration of the environmental protection program.

Response

As needed, pre-dredge meetings will be held with the Government to develop mutual understandings relative to the administration of the environmental protection program.

8.0 Surveillance

Requirement

Surveillance during the work all activities, including those of subcontractors, shall be supervised to assure compliance with the intent and details of the plan. Training courses shall be Contractor-conducted for the Contractor's personnel and any subcontractors to assure that all working at the site are familiar with the environmental protection provisions. All equipment and materials for environmental protection shall be inspected periodically to assure that they are in proper order and have not deteriorated.

Response

The Dredge's Captain is responsible for surveillance of work activities. Spill containment and cleanup procedures will be discussed on a regular basis in the form of regularly scheduled meetings as well as during daily briefings, as necessary. Dredge equipment is inspected on a regular basis to ensure that it is in operating order and any equipment found to be in disrepair or inoperable will be repaired to an operable condition or otherwise recycled and/or discarded in upland areas in an appropriate manner.

9.0 Completion

Requirement

Before this contract is completed all restoration, cleanup, and other work required to leave the site in an acceptable condition shall have been completed. Final payment will not be made until the environmental protection requirements have been met.

Response

Equipment associated with the dredging operations will be removed, sites will be restored, and cleanup will be performed to leave the sites in an acceptable condition.

10.0 Protection of Water Resources

Requirement

No water courses shall be polluted with any petroleum products, fuels, oils, lubricants, bitumens, calcium chloride, insecticides, herbicides, or other toxic materials harmful to life. Chemical emulsifiers, dispersants, coagulants, or other cleanup compounds shall not be used without prior written approval. The person in charge shall report immediately

any discharge of the above products into the water to the nearest U. S. Coast Guard Unit Compliance with State water quality standards and conditions of airy permits and clearances obtained for the work is the Contractor's responsibility.

Deposit of any materials, effluents, trash, garbage, oil, grease, chemicals, or other contaminants in areas adjacent to streams shall not be allowed. If any unwanted material is dumped in unauthorized areas, the material shall be removed and the area restored to a condition approximating the adjacent undisturbed area. Contaminated ground shall be excavated, removed, and the area restored as directed.

Response

The Port's Environmental Policy is stated below as underlined text:

The Port of Portland will achieve its mission through responsible environmental stewardship and the implementation of proactive environmental programs. The Port will integrate environmental considerations into all aspects of its strategic planning and business decision-making.

The Port will actively seek resolutions to environmental issues by endeavoring to achieve the following goals:

Compliance: Comply fully and promptly with all applicable environmental laws, regulations, and Port policies.

Planning: Integrate environmental costs, risks, impacts, and public concerns into operating decisions and facility development planning processes.

Natural Resources: Minimize impacts and seek opportunities to enhance natural resources while carrying out Port projects.

Pollution Prevention: Minimize pollution and waste through source reduction, reuse, or recycling.

Management Commitment: Communicate this policy and its requirements and deliver the training, tools, and resources required to implement this policy.

Government Relations: Develop cooperative working relationships with agencies and promotes development of sound environmental legislation and regulation.

Community Relations: Provide community outreach and leadership on environmental issues and respond in a timely fashion to inquiries or expressions of concern regarding environmental issues related to Port and tenant activities.

Performance: Improve the Port's environmental performance through regular monitoring and evaluations.

Quality: Achieve superior environmental performance and work product.

Continuous Improvement: Continuously improves the effectiveness of the Port's environmental program.

In particular, watercourses shall be protected from pollutants of petroleum products, fuels, oils, lubricants, bitumens, calcium chloride, insecticides, herbicides, or other toxic materials harmful to life. Chemical emulsifiers, dispersants, coagulants, or other cleanup compounds will not be used without prior written approval of the ACOE. Hazardous materials, effluents, trash, garbage, oil, grease, chemicals, or other contaminants will not be deposited adjacent to streams. If any unwanted material is dumped in unauthorized areas, the material will be removed and the area restored to a condition approximating the adjacent undisturbed area. Contaminated ground shall be excavated, removed, and the area restored as directed.

In the event of an accidental spill, all emergency response actions will comply with procedures as described in Section 3.0 Containment and Cleanup.

11.0 Protection of Fish and Wildlife

Requirement

All work shall be performed and all steps taken to prevent interference or disturbance to fish and wildlife. Water flows or habitat outside the project boundaries which are critical to fish or wildlife shall not be altered or disturbed.

Response

The Dredge Oregon will meet the terms and conditions of the Corps' Water Quality Certifications as provided by the Oregon Department of Environmental Quality (DEQ) dated June 5, 2000 and the Washington Department of Ecology (DOE) dated June 5, 2000. In addition, the provisions and recommendations provided to the Corps by the Washington Department of Fish and Wildlife, dated April 25, 2000; DOE Shoreline and Environmental Assistance Program, dated June 1, 2000; and the Biological Opinion provided by the National Marine Fisheries Service, dated September 15, 1999 will also be met. Copies of these documents are included in Appendix A.

12.0 Environmental Protection Meetings

Requirement

During dredging operations the Contractor shall conduct monthly meetings with all project personnel. The items discussed shall include applicable pollution standards, methods of pollution detection and prevention, and other subjects ,pertinent to protecting the environment on this project. A copy of the meeting's agenda and list of personnel attending will be attached to the daily Quality Control Report.

Response.

This EPP will be discussed on a monthly basis, or more often as necessary. The discussion will be lead by the by the Navigation Division Manager, the Health and Safety Supervisor, or the Dredge Captain. The agenda will include those items stipulated in the permits as well as any other items pertinent to pollution standards, pollution detection, and/or pollution prevention.

13.0 Disposal of Hazardous Waste

The Port of Portland Navigation Division is currently a conditionally exempt generator. Treatment, storage, and disposal will comply with applicable Federal, State, and Local regulations relating to hazardous waste management and disposal. In the event hazardous waste if generated, the following shall apply:

- (1) The Port, where possible, will use or propose for use materials, which may be considered environmentally friendly in that waste from such materials is not regulated as a hazardous waste or is not considered harmful to the environment.
- (2) Documentation for analysis, sampling, transportation, and disposal of all hazardous waste streams generated during this contract shall be in accordance with 40 CFR parts 260 through 272, and 49 CFR parts 100 through 177..
- (3) A copy of all hazardous waste determinations, sample results, and shipping manifests shall be furnished to the GQAR to verify compliance with Federal, State, and local regulations.
- (4) All hazardous wastes shall be removed from the Project for proper disposal within 90 days of waste generation. All hazardous waste shall be packaged, labeled, and marked in accordance with 49 CFR 172 and 40 CFR 262. All hazardous waste shall be stored in accordance with 40 CFR 264.
- (5) Transportation of hazardous material shall be in accordance with 49 CFR 100-177.
- (6) Certificates of Destruction or Disposal Certificates shall be submitted for all hazardous wastes within 14 days of actual disposal.
- (7) The Contractor's EPA identification number shall be used to dispose of all hazardous wastes generated by the Contractor and its subcontractors under this contract. This is construed to mean all hazardous wastes the Contractor or

subcontractors generate from materials brought on the site for the purpose of performing work under the terms of the contract.

(8) The Government's EPA identification number shall be used to dispose of all hazardous waste generated from Government-owned facilities on the project. This is construed to mean hazardous wastes generated from the repair, demolition, or removal of any existing materials and buildings from Government facilities and is not intended to include any wastes generated by the Contractor in the performance of its work

(9) It is the responsibility of the Port to prepare all hazardous waste manifests. The Port shall prepare manifests for Government signature when the Government's EPA identification number is used.

(10) Hazardous or dangerous waste shall be recycled to the maximum extent possible. Placing hazardous or dangerous waste in a permitted hazardous waste landfill shall be the last resort. If such facility is necessary, one of the following landfill facilities shall be used for hazardous waste disposal: Chemical Waste Management Hazardous Waste Landfill, Arlington, Oregon; Enviro Safe Inc., Mountain Home, Idaho.